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GGAGGGCAGCAAGGACGGCACCAAGGGAGCTACCCATGGACAGGGCCCCACAGAGACACCACCGGACAT  
 CTCGGGAGCTGGCTGCAAAGAAGACCCACACCTCACAAATTGAAGTGTACCCCTGCAAGATCTGTGG  
 GGACAAGTCATCTGGGATCCACTACGGGGTTATCACCTGTGAGGGGTGCAAGGGCTCTTCCGCCGCAGC  
 CAGCAGTGTAAATGTGGCCTACTCCTGCACCGTCAGCAGAACTGCCCATGACCGAACAGCCGCAACC  
 GATGCCAGCATTGCCCTGCAAAGTGCCTGGCTCTGGCATGTCCCAGATGCTGTCAAGTTGGCCG  
 AATGTCCAAGAAGCAGAGGGACAGTCTACATGCAGAAAGTGCAGAAACAACGTCAACAGCAGCAACAG  
 GAACAAGTGGCCAAGACTCCTCCAGCTGGAGCCGGAGCAGACACACTACATAACTTACACTTAC  
 CAGATGGCAGCTACCACTGGCGCCTCACCTGACCTACCCGAGGCCTGCTGTCCCCCTGCCCTCCT  
 GAGAGCCTCAGGCTCTGGCCCACCATATCCAATACCTTGGCAAAACAGAGGTCCAGGGGCTCCTGC  
 CACCTTGAGTATAGTCCAGAACGAGGCAAAGCTGAAGGCAGAGACAGCATCTATAGCACTGAGGCCAAC  
 TTACTCTTGGAAAGATGTGGACTTCGTTGAGGAAACCAGGCATCCTGAACTTGGGAACCAGAACAGGG  
 TCCAGACAGCCACTGCATTCCCAGTTCTGCAGTGCCTCAGAGGTACCATATGCCCTCTGACAGACATA  
 GAGTACCTGGTACAGAATGTCTGCAAGTCTCCAGAGACATGCCAGCTGCAGTGGAGGACCTTCTAC  
 GGCAGCGCACCAACCTCTTTCACGGGAGGGAGGTGACCAGCTACAGAGGAAGTCAATGTGGAGATGTG  
 GGAGCGCTGTGCCACCACCTCACTGAGGCCATTCACTATGGTGGAGTTGCCAAGCGGCTTCAGGC  
 TTCATGGAGCTCTGCCAGAATGACCAAGATCATACTACTGACAGCAGGAGCAATGGAAGTCGTCTAGTC  
 GAATGTGCAGGGCTACAATGCCAACACCACACAGTCTTTTGAAAGGAAATACGGTGGTGTGGAGCT  
 GTTTCGAGCCTGGCTGCAGCGAGCTCATCAGCTCCATATTGACTTTCCACTCCTCAGGCCCTG  
 TGTTTTCTGAGGATGAGATTGCCCTCTACACGCCCTGGTCTCATCAATGCCAACCGTCTGGCTCC  
 AAGAGAAGAGGAGAGTGGAACATCTGCAATACAATTGAACTGGCTTCCATCATCATCTGCAAGAC  
 TCATCGACAAGGCCCTCTAGCCAAGCTGCCACCCAAAGGAAAACCGGAGCCTGTGCAGCCAACATGTG  
 GAAAAGCTGCAGATCTCCAGCACCTCCACCCATGTGGTCAAGCCGCTTCCNCCACTCTATAAGG  
 AACTCTTCAGCACTGATGTTGAATCCCTGAGGGGCTGTCAAAGTGTACTGGAGGAAGGACAACCTTCTA  
 TTTCCCTCAGCCCTCTGACCCGTCTCCCTGGACTCCCTCACCCAGCCTTCCCTTCTGCACTCTATGA  
 AGGGTGGTATCCCTAGGAGTAAGCAAATCTAAGACTGATTCTGCCCTAGGCTTGCCTTAGGACA  
 ACAGCAGCAAGTGTGGAGAAAAGGCTTGTATGTTGATTCCCATAAGTCCACCCGGCTCTGGAA  
 GCTGTGGGTAGATGGGATAGAGATAGGATGACCAAGTCAAATAAAAAACAGACTGACAATCAGCAGGGA  
 TAAATCCAGGTACCTGGGATAAGGAGAACTCAAATCTAGGCTGAAAGCTAATAACAGTCCTTCAATAC  
 CTCATTGTATTCCCCATGGTCCCTGGGGGACATGGATCTAGCTAGAGACTGGTGGCAAGCCCC  
 AGAAGGACCTGTATAAGAATATAGATTCTG (SEQ ID NO:1)

MDRAPQRHRTSRELLAAKKHTSQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQCN  
 VAYSCTRQQNCPIDRTSRNRCQHCRQLKCLALGMSRDAVKFGRMSKKQRDSLHAEVQKQ  
 LQQQQQQEQVAKTPPAGSRGADLTYTGLSDGQLPLGASPDLPPEASACPPGLRASGSQPP  
 YSNTLAKTEVQGASCHLEYSPERGKAEGRDSIYSTDGQLTLGRCGLRFEETRHPPEGEPEQG  
 PDSHCIPSFCSAPEVPYASLTDIEYLQNVCKSFRETCQLRLEDLLRQRTNLFREEVTSYQR  
 KSMWEMWERCAHHLTEAIQYVVEFAKRLSGFMELCQNDQIILTAGAMEVVLVRMCRAY  
 NANNHTVFFEGKYGGVELFRALGCSELISSIIFDFSHFLSALCFSEDEIALYTALVLINANRPL  
 QEKRRVEHLQYNLEAFHHHLCKTHRQGLAKLPPKGKLRSLCSQHVEKLQIFQHLHPIVV  
 QAAFPPLYKELFSTDVESPEGLSK (SEQ ID NO:2)

FIGURE 1

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underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

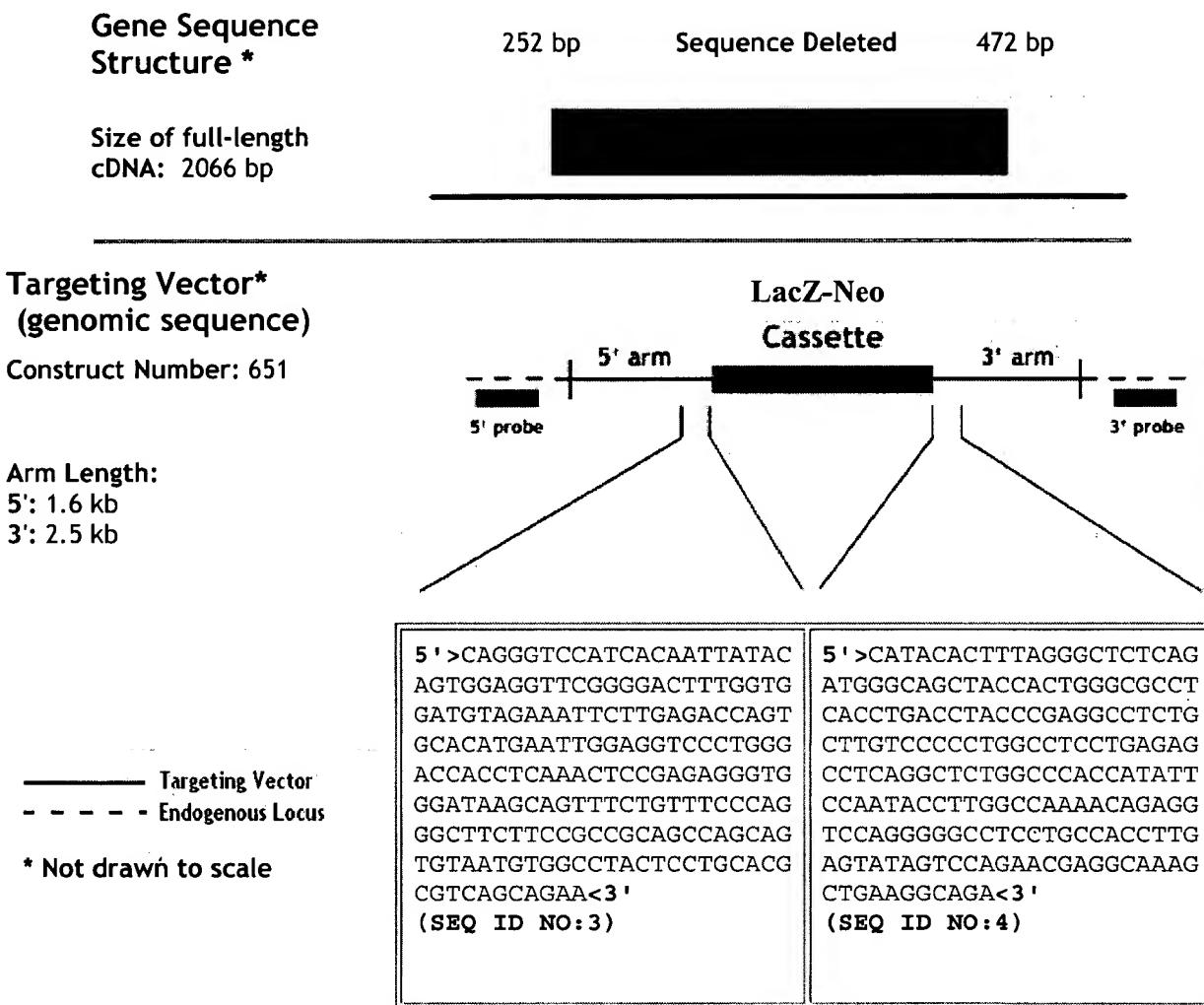
GGAGGGCAGCAAGGACGGCACCAAGGGAGCTACCCATGGACAGGGCCCCACAGAGACAC  
 CACCGGACATCTCGGGAGCTGCTGGCTGCAAAGAAGACCCACACCTCACAAATTGAAGTG  
 ATCCCTTGCAGATCTGTGGGACAAGTCATCTGGGATCCACTACGGGTTATCACCTGT  
 GAGGGGTGCAAG [GGCTTCTTCCGCCGCAGCCAGCAGTGTAAATGTGGCTACTCCTGCACG  
 CGTCAGCAGAA] CTGCCCCATTGACCGAACAGCCGCAACCGATGCCAGCATTGCCGCCTG  
 CAGAAGTGCCTGGCTCTGGGATGTCCCAGATGCTGTCAAGTTGGCCGAATGTCCAAG  
AACCAGAGGGACAGTCTACATGCAGAAGTGCAGAAACAACTGCAACAGCAGCAGCAACAG  
GAACAAAGTGGCAAGACTCCTCCAGCTGGGAGCCGGAGCAGACACACTTA [CATACACT  
 TTAGGGCTCTCAGATGGGAGCTACCACTGGGCGCTCACCTGACCTACCGAGGCCCT  
 GCTTGCCCCCTGGCCTCCTGAGAGCCTCAGGCTCTGGCCCACCATATTCAATACCTT  
 GCCAAAACAGAGGTCCAGGGGCCCTGCCACCTTGAGTATAGTCCAGAACGAGGCAAA  
 GCTGAAGGCAGAGACAGCATCTAGCACTGACGGCCAACTTACTCTTGAAGATGTGGA  
 CTTCGTTTGAGGAACCAGGCATCCTGAACTTGGGAAACCAGAACAGGTCCAGACAGC  
 CACTGCATCCCAGTTCTGCAGTGCCAGAGGTACCATATGCCCTCTGACAGACATA  
G] AGTACCTGGTACAGAATGTCTGCAAGTCTCCAGAGAGACATGCCAGCTGCACTGGAG  
 GACCTTCTACGGCAGCGCACCAACCTCTTTCACGGGAGGAGGTGACCAGCTACCAGAGG  
 AAGTCAATGTGGAGATGTGGAGCGCTGTGCCACACCTCACTGAGGCATTCAGT  
 GTGGTGGAGTTGCCAACGGCTTTCAGGCTTCATGGAGCTGCCCAGAACGAGATC  
 ATACTACTGACAGCAGGAGCAATGGAAGTCTGCTTAGTCAGAATGTCAGGGCTACAA  
 GCCAACAACCACACAGTCTTTTGAGGCAAAATACGGTGTGGAGCTGTTGAGCC  
 TTGGGCTGCAGCGAGCTCATCAGCTCATATTGACTTTCCACTTCCCTAGGCCCTG  
 TGTTTTCTGAGGATGAGATTGCCCTCTACAGGCCCTGGTTCTCATCAATGCCAACGT  
 CCTGGGCTCCAAGAGAACAGGGAGGTGGAAACATCTGCAATACAATTGGACTGGTTTC  
 CATCATCATCTGCAAGACTCATGACAAAGGCCTCTAGCCAGCTGCCACCCAAAGGA  
 AAACTCCGGAGCCTGTGCAAGCCAACATGTGAAAAGCTGCAGATCTCCAGCACCTCAC  
 CCCATCGTGGTCCAAGGCCCTCCNCACTCTATAAGGAACTCTTCAGCAGCTGATGTT  
 GAATCCCCTGAGGGGCTGTCAAAGTGTGGAGGAAGGACAACTTCTATTCCCTCAG  
 CCCTCTGACCCGTCTCCCTGGACTCCCTCACCCAGCCTTCCCTTCTGCACTCATGA  
 AGGGTGGTATCCCTAGGAGTAAGCAAACTCTAAGACTGATTTCTGCCCTAGGCTTG  
 TTGTAGGACAACAGCAGCAAGTGTGAGAAAAGGCTGTTATGTTGATTCCATAAG  
 TTCCACCCCTGGCTTCTGGAAGCTGTGGGTAGATGGGATAGAGATAGGATGACCAAGTCA  
 AATAAAAAACAGACTGACAATCAGCAGGATAAAATCCAGGTACTGGGATAAGGAGAA  
 CAAATCTAGGCTTGAAGCTAAACAGTCTTCAATACCTCATTGTATTCCCCATGG  
 GTCCTCCTGGGGGACATGGATCTAGCTAGAGACTGGTGGCAAGCCCCAGAAGGACCT  
 GTATATAATAAGAATATAGATTCCCTG (SEQ ID NO:1)

## FIGURE 2A

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**FIGURE 2B**

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### necropsy - spleen weight/body weight

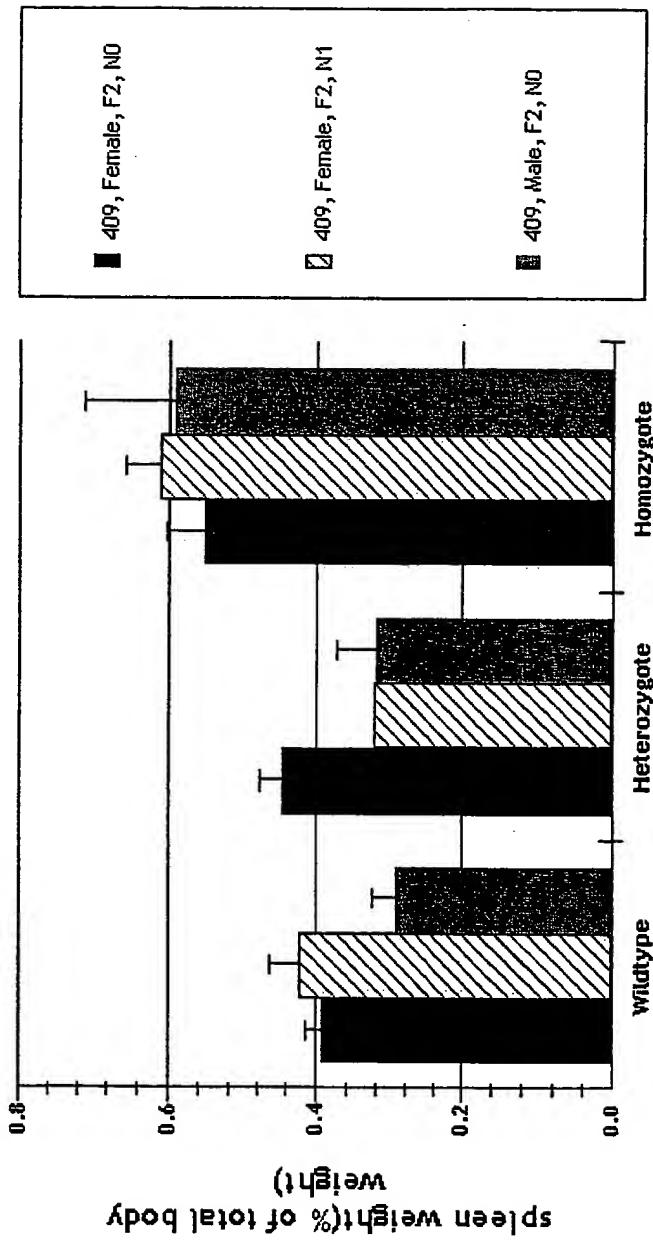


FIG. 3

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### necropsy - liver weight/body weight

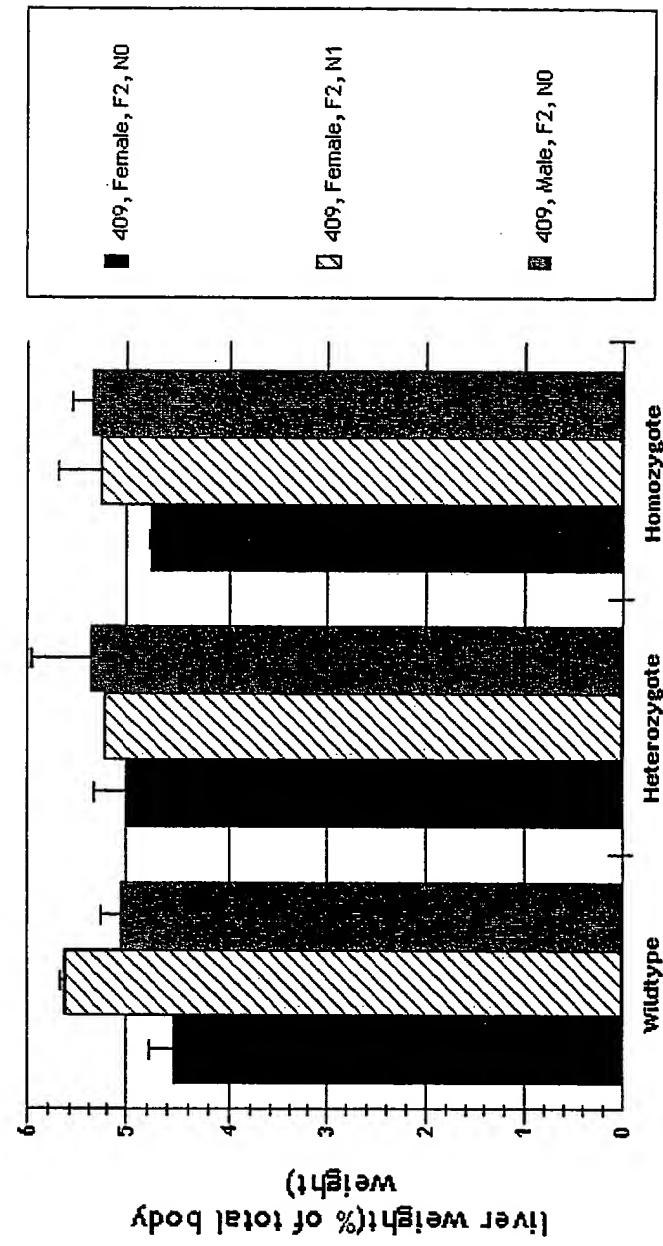


FIG. 4

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### necropsy - kidney weight/body weight

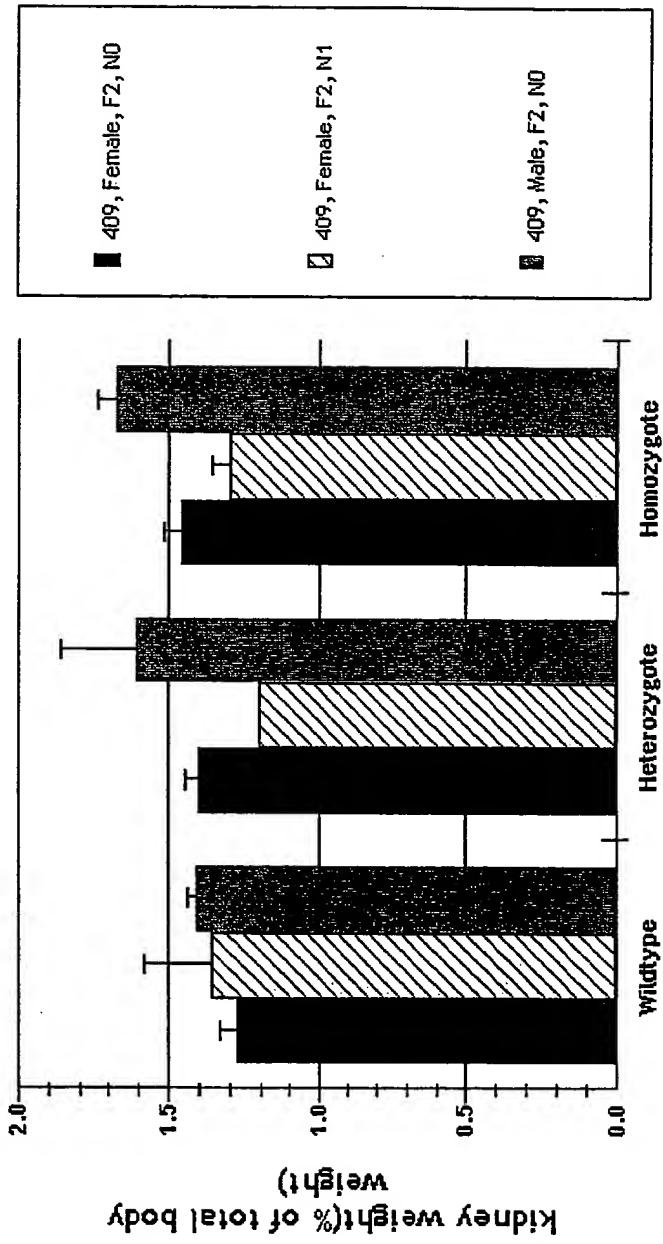


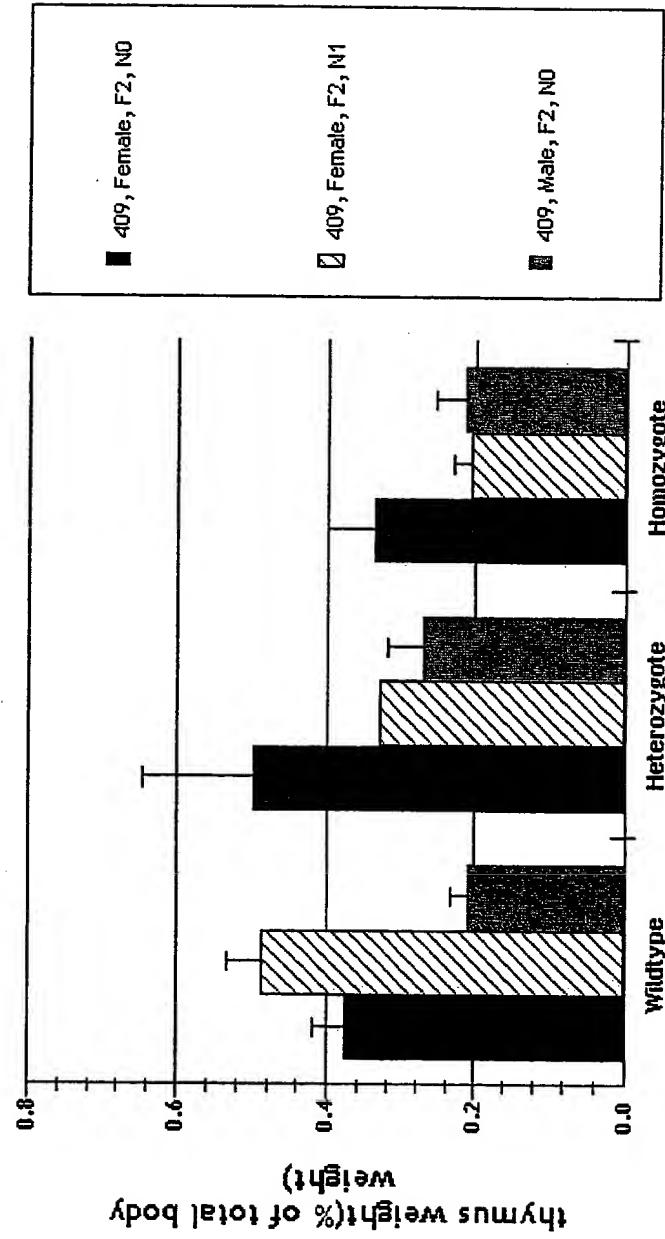
FIG. 5

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### necropsy - thymus weight/body weight



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FIG. 6